

## SAFETY DATA SHEET

Revision Date 19-Dec-2025 Revision Number 5

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

1. Identification

Product Name Dibenzyldithiocarbamic acid zinc salt

Cat No.: AC406440000; AC406440050; AC406440250; AC406441000

CAS No 14726-36-4

**Synonyms** Zinc bis(dibenzyldithiocarbamate).

**Recommended Use** Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Fair Lawn, NJ 07410

Tel: (201) 796-7100

## **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

#### Classification

Classification according to [US] OSHA (29 CFR 1910.1200, 2024)

## Label Elements

None required

#### Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

#### Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

## 3. Composition/information on Ingredients

Component	CAS No	Weight %
Zinc, bis[bis(phenylmethyl)carbamodithioato-S,S']-,	14726-36-4	<=100
(T-4)-		

## 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms and

effects

None reasonably foreseeable.

**Notes to Physician** Treat symptomatically

## Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

No information available **Unsuitable Extinguishing Media** 

**Flash Point** No information available Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

Not applicable

No data available Upper No data available Lower Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Do not allow run-off from fire-fighting to enter drains or water courses.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Sulfur oxides. Zinc. Heavy metal oxides.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	1	0	N/A

6. Accidental release measures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust **Personal Precautions** 

formation.

**Environmental Precautions** Do not flush into surface water or sanitary sewer system. Do not allow material to

> contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into

the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed

containers for disposal. Up

7. Handling and Storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not Handling

get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Storage.

Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure **Exposure Guidelines** 

limitsestablished by the region specific regulatory bodies.

Ventilation systems. **Engineering Measures** 

**Personal Protective Equipment** 

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

FN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

> EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

> > Remarks

Method

Recommended Filter type: Particulates filter conforming to EN 143.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

9. Physical and chemical properties

**Appearance** 

**Physical State** Powder Solid Off-white Color Odor Odorless

**Odor Threshold** No information available

**Property** Values

**Melting Point/Range** 183 - 188 °C / 361.4 - 370.4 °F

**Softening Point** No data available **Boiling Point/Range** No information available

**Flash Point** No information available Method - No information available Solid

Flammability (liquid) Not applicable

No information available Flammability (solid,gas)

Revision Date 19-Dec-2025

**Explosion Limits** No data available

**Autoignition Temperature** Not applicable No data available **Decomposition Temperature** No information available

Viscosity Not applicable Solid

**Water Solubility** No information available Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

No data available **Vapor Pressure Density / Specific Gravity** No data available **Bulk Density** No data available **Vapor Density** Not applicable

Particle characteristics No data available

Other Information

C30 H28 N2 S4 Zn Molecular Formula

**Molecular Weight** 610.21

**Evaporation Rate** Not applicable - Solid

## 10. Stability and reactivity

Solid

**Reactive Hazard** None known, based on information available

Stable under normal conditions. Stability

**Conditions to Avoid** Incompatible products.

**Incompatible Materials** Strong oxidizing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides, Zinc,

Heavy metal oxides

No information available. **Hazardous Polymerization** 

None under normal processing. **Hazardous Reactions** 

## 11. Toxicological information

Information on expected route of exposure

Inhalation Avoid breathing dust or spray mist. May be harmful if inhaled.

No known effect based on information supplied. May be harmful if swallowed. Ingestion

Eyes Avoid contact with eyes. Avoid contact with skin. Skin

Toxicology data for the components

No information available **Toxicologically Synergistic** 

**Products** 

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Revision Date 19-Dec-2025

Respiratory No data available No data available Skin

(e) germ cell mutagenicity; No data available

(f) carcinogenicity;

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Zinc, bis[bis(phenylmethyl)c arbamodithioato-S,S']-, (T-4)-		Not listed				

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

No information available. **Target Organs** 

(j) aspiration hazard; Not applicable

Solid

Other Adverse Effects The toxicological properties have not been fully investigated.

Symptoms / effects,both acute and No information available.

delayed

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Endocrine Disrupting Properties** This product does not contain any known or suspected endocrine disruptors.

## 12. Ecological information

#### **Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Not listed	LC50: > 10 mg/L, 96h	Not listed	EC50 = 0.74 mg/L 48h
	,		
	reticulata)		
	Not listed	Not listed LC50: > 10 mg/L, 96h	Not listed LC50: > 10 mg/L, 96h Not listed semi-static (Poecilia

**Persistence and Degradability** May persist

**Bioaccumulation/ Accumulation** No information available. No information available. **Mobility** 

## 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## Transport information

DOT Not regulated

**Technical Shipping Name** Zinc, bis[bis(phenylmethyl)carbamodithioato-S,S']-, (T-4)-

Not regulated TDG

Technical Shipping Name Zinc, bis[bis(phenylmethyl)carbamodithioato-S,S']-, (T-4)-

<u>IATA</u>

UN-No UN3077

**Proper Shipping Name** Environmentally hazardous substances, solid, n.o.s. **Technical Shipping Name** Zinc, bis[bis(phenylmethyl)carbamodithioato-S,S']-, (T-4)-

**Hazard Class Packing Group** Ш

IMDG/IMO

UN3077 **UN-No** 

**Proper Shipping Name** Environmentally hazardous substances, solid, n.o.s. **Technical Shipping Name** 

Zinc, bis[bis(phenylmethyl)carbamodithioato-S,S']-, (T-4)-**Hazard Class Packing Group** 

Ш

## 15. Regulatory Information

#### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Zinc,	14726-36-4	Χ	ACTIVE	-
bis[bis(phenylmethyl)carbamodithi				
oato-S,S']-, (T-4)-				

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

TSCA 12(b) - Notices of Export

Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Zinc,	14726-36-4	Х	-	238-778-0	Χ	Х	Χ	Х	Х	KE-02996
bis[bis(phenylmethyl)carbamodithi										
oato-S,S']-, (T-4)-										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	CAS No	Weight %	SARA 313 - Threshold	SARA 313 - Reporting
		_	Values %	threasholds

Zinc,	14726-36-4	<=100	1.0 %	-
bis[bis(phenylmethyl)carb				
amodithioato-S,S']-,				
(T-4)-				

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Zinc,	-	-	X	-
bis[bis(phenylmethyl)carbamodit				
hioato-S,S']-, (T-4)-				

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Not applicable

Health Administration

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Zinc,	-	X	X	-	-
bis[bis(phenylmethyl)carb					
amodithioato-S,S']-,					
(T-4)-					

## **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH Not applicable

	Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	J	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Ī	Zinc,	14726-36-4	-	-	-

Revision Date 19-Dec-2025

bis[bis(phenylmethyl)carbamodithio		
ato-S,S']-, (T-4)-		1

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Zinc, bis[bis(phenylmethyl)carbamo dithioato-S,S']-, (T-4)-	14726-36-4	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### **Other International Regulations**

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Zinc, bis[bis(phenylmethyl)carbamo dithioato-S,S']-, (T-4)-	14726-36-4	Not applicable	Not applicable	Not applicable	Annex I - Y23

	16. Other Information
Prepared By	Product stewardship (Regulatory Affairs)

Thermo Fisher Scientific

email - begel.sdsdesk@thermofisher.com

Revision Date19-Dec-2025Print Date19-Dec-2025

Revision Summary Updated to the U.S. Department of Labor's Occupational Safety and Health Administration

(OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200,

2024), May 20, 2024, effective July 19, 2024.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**